

POSTDOCTORAL POSITION BRAIN METASTASIS GROUP

The Brain Metastasis Group (www.valientelab.com) is an EMBO YIP laboratory part of the Molecular Oncology Programme at CNIO (www.cnio.es). The lab studies the biology of secondary brain tumors using mouse models and human samples. Given our unique background we can apply an interdisciplinary approach to interrogate the brain metastasis microenvironment and to exploit it therapeutically.

We want to expand the implications of our recent key findings in the brain metastasis microenvironment (Priego et al. Nat Med. 2018). Specifically, we want to characterize the biology of the reactive astrocytes that have been modified by the presence of cancer cells with a particular interest in the metabolic and epigenetic changes that could be responsible for their pro-tumorigenic properties. The final goal of the project is to develop innovative ways of targeting brain metastases but also to exploit novel biomarkers. Even though the project will be focused on brain metastasis, we will seek to explore the possibility that the same principles identified in astrocytes could apply to other brain disorders.

Applicants with a PhD and recent experience in any related field (Neuroscience, Cancer Biology, Metabolism, Epigenetics,...) and a competitive track record (main author publications during the last 2 years in high impact journals/ leading journals in the respective field) are encouraged to apply. The project will involve the analysis in vitro (primary astrocytes), ex vivo (organotypic brain cultures) and in vivo (brain metastasis experimental models) of reactive astrocytes associated with brain metastasis. The development of new mouse models, -omic approaches, and various molecular biology techniques will be used throughout the project.

The position is funded but the candidate will be expected to obtain her/ his own funding with full support to national and international calls.

Candidates interested must submit a single pdf document to mvaliente@cnio.es containing:

- cover letter (max 1 page)
- short CV (max 2 pages)
- 3 references (no letters are needed at this point).

→Those candidates not following this application format will not be considered.

The position will remain open until the position filled. Candidates can join the lab immediately.

CNIO is one of the top institutions for cancer research in Europe, with access to a broad variety of core facilities and an excellent scientific environment. Its international working environment promotes equal opportunities for men and women, regardless of their nationality, age, race, religion and beliefs, disability and sexual orientation, under criteria of scientific excellence.